Vishvapalsinhji Parmar

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Master Thesis

Topic & Description	**Patent classification and annotation using AI**, *Universität Passau, Passau, Germany.*

- data acquisition, data cleaning & feature extraction
- building machine learning and deep learning models
- refinement of existing pretrained models like Bert and PatentBert

Technologies - python3, bigquery, numpy, pandas, tensorflow-2.0, scipy, beautifulsoup, matplotlib, scikit-learn, google cloud platform.

Work Experience

Apr.,2022 – Present   **Research Assistant (Data Science)**, *Universität Passau, Chair of Data and Knowledge Engineering.*

Automated "Data Cleaning" using Machine Learning

- work on the project "BigScience: GPA-accelerated AI tools for Big Data Science in hybrid MPP databases"
- responsible for various research, implementation and evaluation tasks
- conducting a know-how workshop with faculty members

Technologies - python3, pandas, numpy, docker, sql, gnu/linux

Tutorials and Supervision

- tutorials for the lectures "Database Systems", "Complex Systems Engineering", and "Semantic Data Integration"
- supervision of students on seminar papers covering various topics in the area of Data and Knowledge Engineering
- conducting a know-how workshop after tutorials for students

Technologies - sql, postgresql, python3, latex, yworks, tensorflow-2

Aug.,2017 – Oct.,2018   **Junior Software Developer**, *Technorigins Web Solutions, Ahmedabad, India.*

- building tools with the Laravel framework
- creating wordpress plugins with php
- supporting the team with debugging and know-how

Technologies - sql, php, laravel, javascript, html, restful api, postman, asana

Jan.,2017 – July,2017   **Web Developer**, *Freelancer, Ahmedabad, India.*

- website development with CodeIgniter
- problem solving through formal meetings with clients

Technologies - sql, php, codeigniter, javascript, html, css

University Project

Topic & Description	**Prediction of Protein Interactions using Graphical Convolution Network**, Data Science Lab, *University of Passau, Chair of Data Science*. - study and implementation of GCN in pytorch - prediction of Protein-Protein interaction on a Yeast dataset
Technologies	- pytorch, networkx, edgelist data, graphical-convolution-network, google-colab

Publications

May,2022	**PaSA: A Dataset for Patent Sentiment Analysis to Highlight Patent Paragraphs**, International Conference on Artificial Intelligence for Law, *Singapore, Singapore*.
Dec.,2022	**Patent Classification Using BERT-for-Patents on USPTO**, Machine Learning and Natural Language Processing, *Sanya, China*.

Education

Nov.,2018 – Jan.,2022	**M.Sc. Computer Science**, *Universität Passau*, Passau, Germany.

- Advanced Topics in Data Science
- Semantic Technology
- Data Science & Visual Analytics
- Multimedia Databank
- Linear System Theory
- Web of Things and Services

June,2012 – May,2016	**B.E. Computer Engineering**, *Gujarat Technological University, Indien*. Focus Area: Software Development, Algorithm
Apr.,2010 – March,2012	**Secondary High school (Science)**, *GSHSEB, Indien*. Focus Area: Mathematics

Further training / Certification

July,2016 – Dec.,2016	**English course and preparation for GRE**, *Shiksha - The Learning Centre, India*.
Apr.,2020 – June,2020	**Python Programmer Track**, *DataCamp*.
Nov.,2020 – Apr.,2021	**Mathematics for Machine Learning Specialization,** Coursera **Machine Learning,** Coursera **Deep Learning Specialization,** Coursera **TensorFlow Developer Professional Certificate,** Coursera **Getting and Cleaning Data,** Coursera.

Technical Skills

Technologies:	Python (Scikit-learn, Pandas, Numpy, Tensorflow-2.0, Keras, Pytorch, Matplotlib, OpenCV, BeautifulSoup, flask), Java, R, SQL, Git, Docker
Software:	Jupyter Notebook, PyCharm, R Studio, Eclipse, VS Code, Tableau, DBvisualizer
Cloud:	Google Cloud Platform, Azure, Amazon AWS

Language

- German (B2/Intermediate)
- Hindi (C1/Fluent)
- English (C1/Fluent)
- Gujarati (C2/Native)